

THE GENUS-NAME *MARTENSIA*, SEMPER.

By TOM IREDALE.

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AT my suggestion Mr. Robin Kemp made the magnificent collections of East African Land Molluses which have been studied by Mr. H. B. Preston. Most of this material was casually examined by myself as it passed through my hands, and thus a slight acquaintance was made with this prolific land molluscan fauna. This apology seems necessary to account for my present incursion into a field quite foreign to my labours.

An outstanding Zonitoid genus of which a number of species was collected by Mr. Kemp was that known as *Martensia*, Semper. This name was proposed in the *Reisen im Archipel der Philippinen*, vol. iii, p. 42, 1870, for the species *Helix mozambicensis*, Pfeiffer (*Proc. Zool. Soc.*, 1855, p. 91) alone. It has been continually used, and I have noted no fewer than ten workers on African molluscs accepting it without question. Yet upon reference to Scudder's *Nomenclator Zoologicus a prior Martensia* is indicated, and this is proven upon confirming that work, as Agassiz in the *Contr. Nat. Hist. United States*, vol. iii, p. 195, footnote, 1860, had correctly and lawfully appropriated that name for a genus of his *Ctenophoræ lobatæ*.

The only available substitute appears to be

LEDOLXIA, Bourguignat.

In the *Helixarionidées de l'Afrique* Bourguignat proposed this name for a series of species, sinking *Martensia* as a synonym of *Trochonanina*. I am quite unable to understand Bourguignat's classification, judging the species from a conchological view-point. Under the genus-name *Trochonanina* he included *mozambicensis*, Pfeiffer, *jenynsi*, Pfeiffer, and some other species, naming as new (p. 9) a *Tr. anceyi*. On p. 12 he proposed *Ledoulxia*, the first species named being *L. albopicta*, based upon *Navina mossambicensis*, var. *albopicta*, Mtns., the second *pyramidea*, Mtns., and five new species introduced.

Bourguignat contended that the introduction of *albopicta* as a variety of *mossambicensis* was due to a misinterpretation of the latter species by Von Martens. I cannot, however, generically separate either this or *pyramidea* from the type of *Martensia*, and Connolly, *Ref. List South African Non-marine Mollusca*, still retains (p. 103) *albopicta*, Mtns., as a variety of *mozambicensis*, and moreover considers *Trochonanina anceyi*, Bourguignat, as synonymous.

Tryon maintained *Martensia*, and conservatively suggested that *Ledoulxia* might temporarily be considered a synonym.

Connolly (*ibid.*, p. 101) quotes as synonym of *Martensia* "*Ledoulxia*, Bgt. 1885, *pars*". I would designate as type of *Ledoulxia* the first species, *L. albopicta*, Mtns., and thus make this exactly equivalent to the invalid *Martensia*.

I have collated all the apparent species referred to this genus, and though at first sight the genus appears polyphyletic, no conchological characters can be grasped for differentiation. The extremes such as *Martensia percivali*, Smith, and *Trochonanina germaini*, Cæsar Boettger, seem easily separable, but after careful consideration I feel that it must be the part of the anatomist to point out the differences.

The names of the species I have brought together may be here noted as a beginning for some African worker. My ignorance of the literature of this fauna prohibits the proposition of a complete list.

LEDOULXIA—

- mozambicensis*, Pfeiffer, P.Z.S., 1855, p. 91.
 var. *albopecta*, Martens, v. d. Decken's Reise, vol. iii, p. 56, 1869.
 var. *elator*, Martens, Mal. Blätt., vol. xiii, p. 92, 1866.
ibuensis, Pfeiffer, Symb. Hel. viv., iii, p. 66, 1846.
jenynsi, Pfeiffer, P.Z.S., 1845, p. 131.
obtusangula, Martens, S.B. Ges. naturf. Berlin, p. 125, 1895.
tumidula, Martens, Monatsbr. wiss. Berl., 1876, p. 256.
leucograptæ, Martens, ib., 1878, p. 290.
plicatula, Martens, Nachr. Malak. ges., 1869, p. 149.
pyramidea, Martens, v. d. Decken's Reise, iii, p. 55, 1869.
mesogæa, Martens, Deutsch Ost Afr., vol. iv, p. 50, 1898.
 var. *bohmi*, id., l.c.
livingstoniana (Ancey), id., l.c., p. 48.
subjenynsi (Ancey MSS.), id., l.c., p. 49.
episcopalis, Smith, Ann. Mag. Nat. Hist., vol. vi, p. 152, 1890.
percivali, Smith, Journ. Conch., vol. x, p. 317, 1903.
permanens, Smith, Journ. Malac., vol. viii, p. 94, 1901.
consociata, Smith, P.Z.S., 1899, p. 584.
nyassana, Smith.
anceyi, Bourguignat, Helix. Afr., 1885, p. 9.
ulfieriana, Bourguignat, ib., p. 13.
formosa, Bourguignat, ib., p. 14.
megastoma, Bourguignat, ib., p. 14.
insignis, Bourguignat, ib., p. 15.
unizonata, Bourguignat, ib., p. 15.
smithi, Bourguignat, Moll. Afr. équat., 1889, p. 17.
meruensis, D'Ailly, Kilim. Meru Exp. 6, p. 13, 1911.
busuensis, Kobelt, Rev. Suisse Zool., vol. xxi, p. 59, 1913.
entebbeana, Pollonera, Torin. Boll. Mus. Zool., No. 561.
germaini, Cæsar Boettger, Proc. Malac. Soc., vol. x, p. 348, 1913.
bowkeræ, Preston, ib., vol. vii, p. 88, 1906.
gwendolenæ, Preston, Ann. Mag. Nat. Hist., vol. vi, p. 529, 1910.
martensiana, Preston, ib., p. 529.
monozonata, Preston, ib., p. 530.
 ? *shimbiense*, Preston, ib., p. 530.
levistriata, Preston, Rev. Zool. Afr., vol. iii, p. 48, 1913.
nyiroensis, Preston, ib., p. 48.
voiensis, Preston, ib., p. 49.
inflata, Preston, ib., p. 49.
solida, Preston, ib., p. 49.

This list may not be complete, nor is it critical, but is an association of the species grouped together as or under the generic name *Martensia*.

The species *tumidula*, Martens, does not seem congeneric, whilst others, such as *nyiroensis*, Preston, and *shimbiense*, Preston, need further consideration. Another correction may be here noted. Connolly, in his invaluable Reference List of South African Non-marine Mollusca (Annals South African Museum, vol. xi, 1912), introduced a new sub-family Trochonaninæ, which is represented in his list by the genera *Martensia*, *Trochomorpha*, *Trochozonites*, and *Thapsiella*. I do not consider that these African molluscs have any close relationship with *Trochonanina*, the type of which is *schmeltziana*, Mousson, a Pacific Ocean shell (cf. Gude, Proc. Malac. Soc., vol. x, p. 389, 1913). I would suggest that the sub-family name be altered to TROCHOZONITINÆ, the basis of which is the genus *Trochozonites*, proposed for an African shell, and the species of which closely resemble in conchological features the species of *Ledoulxia*.

Trochomorpha, used by Connolly (p. 103), following Melvill and Ponsonby, can have no place in the African list, the type being also a Pacific Ocean shell.

Thapsiella, at my suggestion, was altered to *Gudeella* by Preston, but acknowledgment was accidentally omitted; this genus does not seem to fall into my sub-family Trochozonitinae, and I would suggest to Connolly reconsideration of this association.
